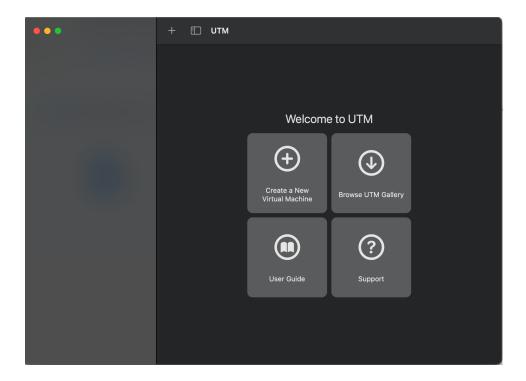
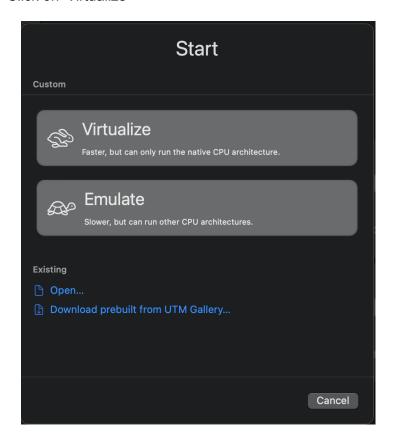
Instructions for Installing Ubuntu VM on Apple Silicon

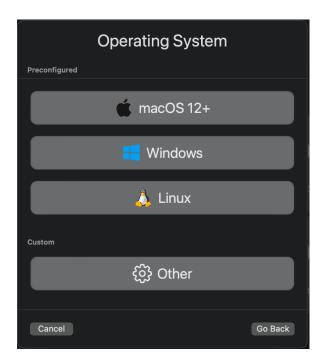
1. Install and open UTM then click on 'Create a New Virtual Machine'



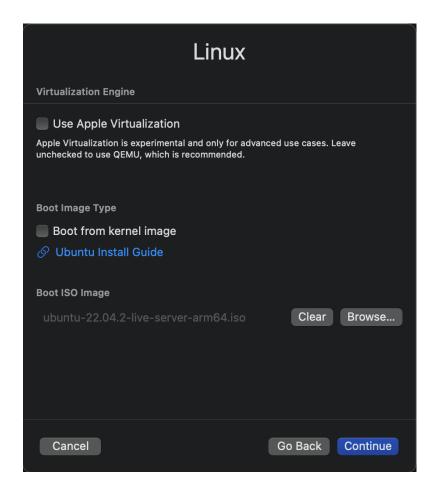
2. Click on 'Virtualize'



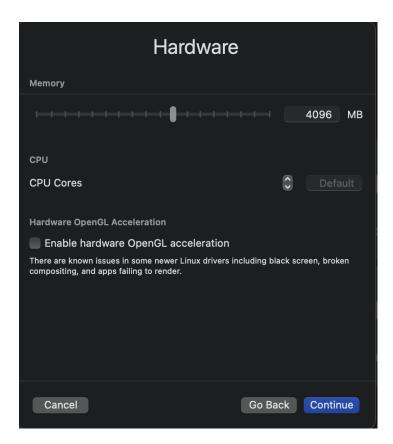
3. Select 'Linux' as the operating system



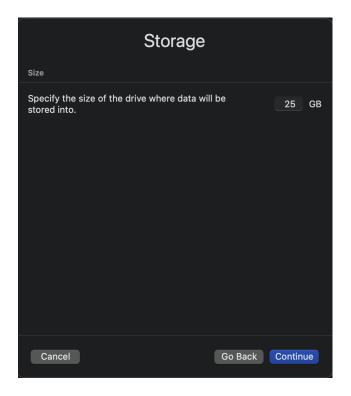
4. Click on Browse and select the iso image for Ubuntu you downloaded then continue



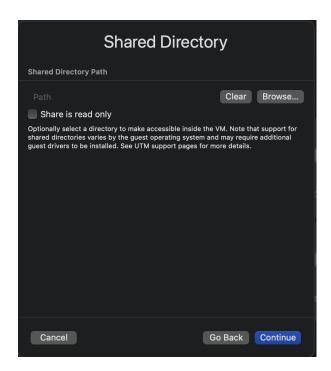
5. Press continue - defaults should be fine



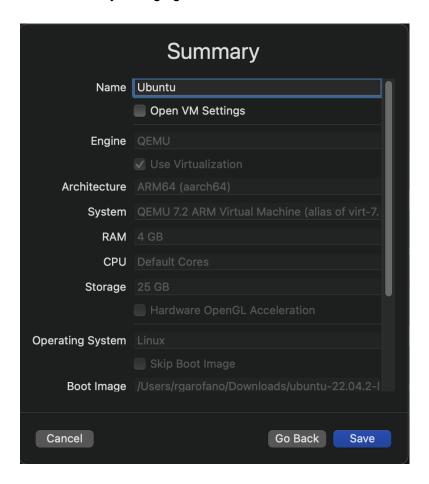
6. Allocate a reasonable amount of disk space for the VM (I have gone with 25 GB)



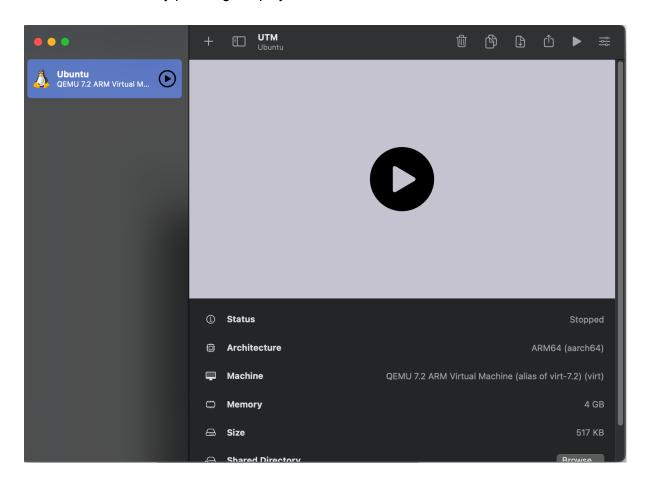
7. Press continue (no need for any shared folders)



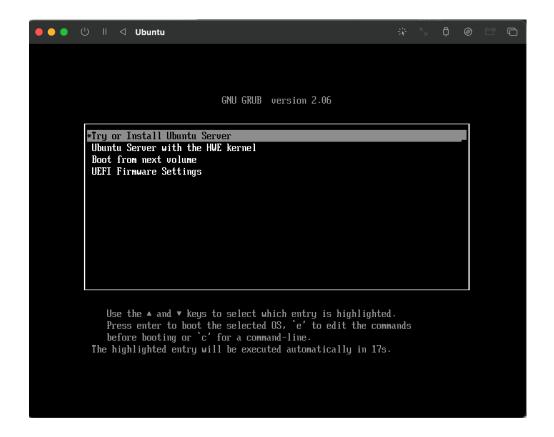
8. Verify the summary details are correct and optionally rename the system to Ubuntu instead of Linux by changing the name field:



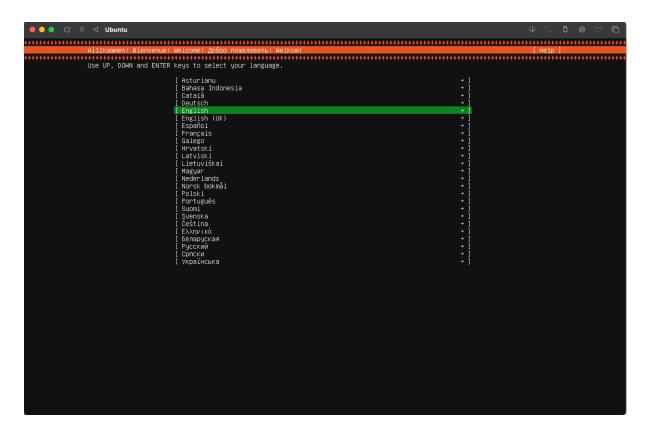
9. Start the VM by pressing the play button:



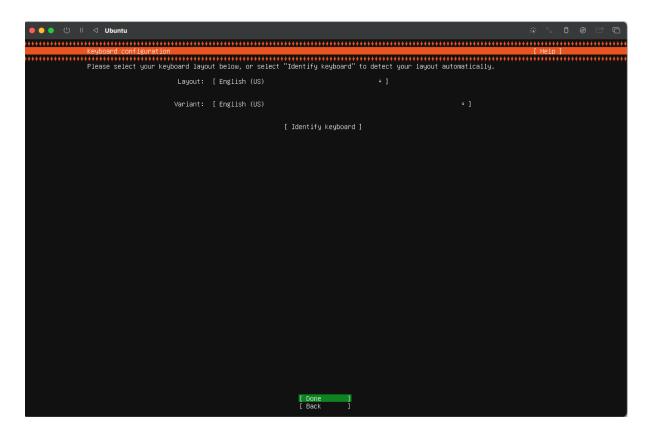
10. Press enter on 'Try or Install Ubuntu Server'



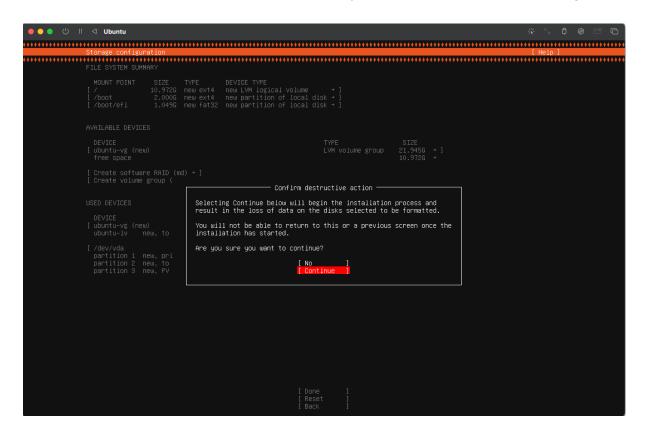
11. Select English as the language by pressing enter on that option:



12. Press enter on done to continue

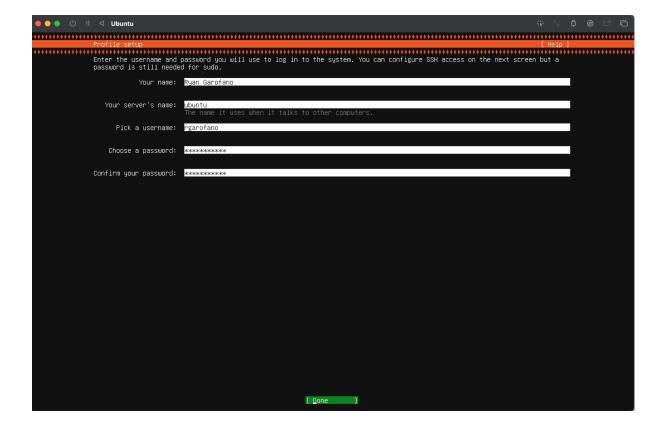


13. Continue to press done on all screens until you are prompted with the following:



Select continue (don't worry this is just formatting free space on your computer, none of your data will be lost)

14. Fill out the details for your user account and the server name, you can use the image below as a possible template. Pick a password you can remember!



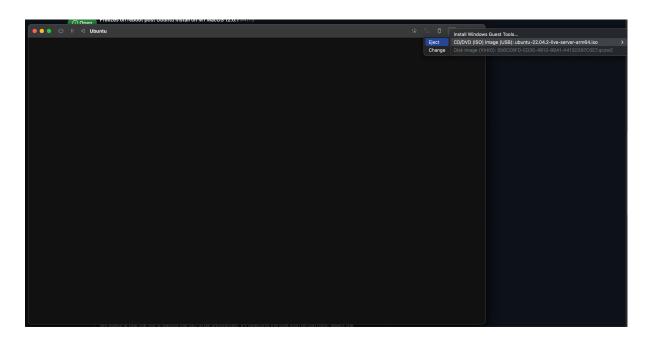
15. Continue to click done on each step (we don't need to install any server related packages right now). Eventually you will get to this screen:

16. When it's done updating press enter on reboot now

```
Install complete

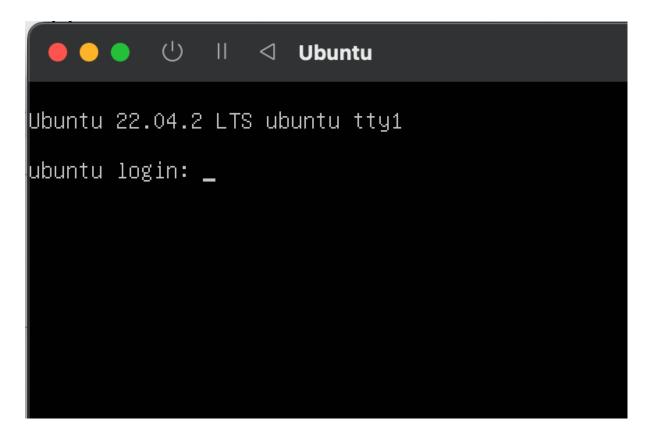
Configuring format: format-2
configuring mount: mount-1
executes origing mount: mount-0
executes origing mount-0
executes origing mount-0
executes origing mount-0
executes origing mount: mount-0
executes origing mount-0
execu
```

If your VM is hanging at a black screen with a blinking cursor like below then eject the the iso as shown:



Then press the reverse play button to restart the VM

17. Log in to your account by typing your username it will then prompt you for your password.



```
Ubuntu 22.04.2 LTS ubuntu tty1
ubuntu login: rgarofano
Password:
Welcome to Ubuntu 22.04.2 LTS (GNU/Linux 5.15.0–76–generic aarch64)
* Documentation: https://help.ubuntu.com
                  https://landscape.canonical.com
* Management:
* Support:
                  https://ubuntu.com/advantage
 System information as of Tue Jul 18 04:35:05 AM UTC 2023
 System load:
                          0.12890625
                          44.7% of 10.70GB
 Usage of /:
                          5%
 Memory usage:
 Swap usage:
                           0%
 Processes:
                           125
 Users logged in:
 IPv4 address for enp0s1: 192.168.64.6
 IPv6 address for enp0s1: fdb5:e640:bfef:ca36:285b:cff:fed1:afda
Expanded Security Maintenance for Applications is not enabled.
65 updates can be applied immediately.
To see these additional updates run: apt list ——upgradable
Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
rgarofano@ubuntu:~$ __
```

19. Since this is just a server installation, we will need to install a GUI ourselves. Luckily it's only gonna take a few commands. Type into your terminal:

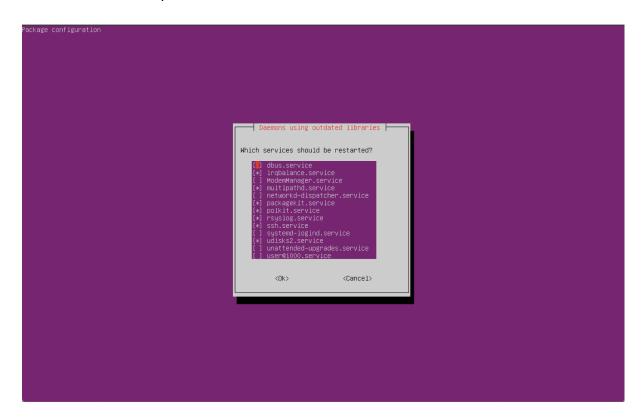
```
sudo apt-get update

sudo apt-get install gnome-shell ubuntu-gnome-desktop
```

You'll need to type in your password for the first command. For the second command type y when prompted.

Let the gnome desktop package and its dependencies install, it will take a while.

20. Once it is complete select OK at this screen



21. Reboot the system with 'sudo reboot'

```
systemctl restart irqbalance.service multipathd.service packagekit.service polkit.service rsyslog.

Service restarts being deferred:
    systemctl restart ModemManager.service
    /etc/needrestart/restart.d/dbus.service
    systemctl restart networkd-dispatcher.service
    systemctl restart systemd-logind.service
    systemctl restart systemd-logind.service
    systemctl restart unattended-upgrades.service
    systemctl restart user@1000.service

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
    cgarofano@ubuntu:~$ sudo reboot
```